

HHA080Z

Moulded Case Circuit Breaker h3 x160 TM FIX 3P3D 80A 25kA CTC

Technical characteristics

Architecture

Type of order	Toggle
Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3P3D
Type of case	FIX

Functions

Complete device with protection unit	Yes
Trip Unit	TM F/F
Integrated earth fault protection	No
Concurrently switching N-neutral	No

Controls and indicators

Motor drive integrated	No

Main electrical features

Rated operational voltage Ue	220 / 415 V
Frequency	50/60

Voltage

Rated insulation voltage	690 V
Rated impulse withstand voltage	8 kV
With under voltage release	No

Electric current

Rated current	80 A
Thermal protection nob setting xIN	1
Rating current 10°C according to IEC 60947	101.9 A
Rating current 150°C according to IEC 60947	99.4 A
Rating current 20°C according to IEC 60947	96.9 A
Rating current 25°C according to IEC 60947	94.3 A
Rating current 30°C according to IEC 60947	91.6 A
Rating current 35°C according to IEC 60947	88.8 A
Rating current 40°C according to IEC 60947	86 A
Rating current 45°C according to IEC 60947	83 A
Rating current 50°C according to IEC 60947	80 A
Rating current 55°C according to IEC 60947	76.8 A

Rating current 60°C according to IEC 60947	73.4 A
Rating current 65°C according to IEC 60947	70 A
Rating current 70°C according to IEC 60947	66.3 A
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	25 kA
Range of the thermal adjustment	80 A
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	25 kA

Dimensions

Depth of installed product	68 mm
Height of installed product	130 mm
Width of installed product	75 mm

Frequency

Frequency	50 to 60 Hz

Power

Total power loss under IN	18.9 W
Power loss per pole at In	6.3 W

Endurance

Electric endurance in number of cycles	1000
Number of mechanical operations	4000

Installation, mounting

DIN rail mounting with optional adaptator	Yes

Connection

Connection	Front connection
Type of connection	with screw

Settings

Range of the magnetic adjustment	1000 A

Equipment

Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change-over contact	0
Motor drive optional	Yes
Can be accessorized	Yes

Standards

Standard text	IEC 60947-2

European directive WEEE	concerned

Safety

Protection index IP	IP4X

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m

temperatur

Temperature of calibration	50 °C